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PATENT ABSTRACTS OF JAPAN

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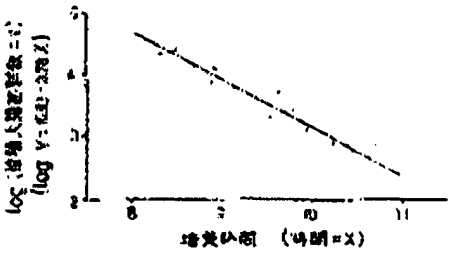
(54) MEASUREMENT OF NUMBER OF COLIFORM GROUP

(57)Abstract:
PURPOSE: To measure number of coliform groups in test specimen suitable for optimization of an amount of chlorine injected for disinfecting target water in a short time in high reliability by inoculating a test specimen into a medium for detecting coliform groups and detecting a culture time of pressure of evolving gas to reach given pressure.
CONSTITUTION: A test specimen containing coliform groups is inoculated into a medium such as BGLB medium for detecting coliform groups and subjected to spinner culture at 37° C to promote generation of gas. A culture time wherein pressure of evolving gas reaches given pressure is detected and number of coliform groups is calculated by the formula (X is culture time; Y is number of inoculated coliform groups) to measure the number of coliform groups in the test specimen. The number of coliform groups in the test specimen can be measured in a short time in high reliability, complexity of counting by human power is omitted, an amount of chlorine injected for disinfection is readily optimized, automatic control of chlorine injection is made possible and this m thod has effects to reduce labor and to expect economic fficiency.

$$\log Y \ (= 10.93 - 0.78X)$$



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